INORGANIC CHEMISTRY (BS-ADP 8th Semester)

Module Code:	Chem-455
Module title:	Inorganic Chemistry Lab - III
Name of Scheme:	BS-ADP 8 th Semester
Department:	School of Chemistry
Faculty:	Science
Module Type:	Compulsory
Module Rating:	1 credit

OBJECTIVES

The aim of this course is to interpret the concepts for better understanding in inorganic chemistry. This course will familiarize the students use of instrumental methods of analysis and salt analysis.

SYLLABUS OUTLINE:

1. <u>Application of Atomic Spectroscopy</u>

Theory and application of Flame photometer. Atomic absorption spectrophotometer, Inductively coupled plasma emission. Metal contents analysis of clinical, industrial, geochemical, biological and environmental samples.

2. <u>Salt Analysis</u>

Identification of acid and basic radicals of a given salt/mixture.

RECOMMENDED BOOKS:

- 1. Vogel, I. (1724). A Text-Book Of Macro And Semimicro Qualitative Inorganic Analysis. Willam Clowes And Sons Limited; London; Bxccles.
- 2. Vogel, Arthur I. A Text-Book Of Quantitative Inorganic Analysis-Theory And Practice. Longmans, Green And Co.; London; New York; Toronto, 2013.
- 3. Quantitative Analysis Chemistry, James S. Pritz, George H. Schenk, 1987 Alby and Becon Inc. London.
- 4. Theory and practice of chromatography by Prof. Dr. Javed Iqbal (2002).
- 5. Rabia Rehman and Haq Nawaz Bhatti, "Experimental Inorganic Chemistry", Carvan Book House Lahore in 2015.
- 6. Haq Nawaz Bhatti and Rabia Rehman "Advanced Experimental Inorganic Chemistry" Carvan Book House Lahore in 2017.